## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Withdrawn) A material for a solid polyelectrolyte; said material comprising: a multi-segmented fluoropolymer having a fluoropolymer chain segment A containing sulfonic acid functional groups, which is a copolymer comprising:
  - (a) an ethylenic fluoromonomer unit containing sulfonic acid functional groups represented by Formula (1)

$$CX_2 = CX^1 - (O)_n - Rf - SO_2Y$$
 (1)

wherein X and  $X^1$  may be the same or different and are each hydrogen or fluorine; Y is F, Cl or OY<sup>1</sup> wherein Y<sup>1</sup> is hydrogen, alkali metal or C<sub>1</sub> to C<sub>5</sub> alkyl; Rf is C<sub>1</sub> to C<sub>40</sub> divalent fluoroalkylene or C<sub>1</sub> to C<sub>40</sub> divalent fluoroalkylene having ether bond(s); and n is 0 or 1; and

- (b) at least one type of ethylenic fluoromonomer unit copolymerizable with the unit (a) and containing no sulfonic acid functional groups; and a fluoropolymer chain segment B containing no sulfonic acid functional groups, the fluoropolymer chain segment B having a crystalline melting point of 100°C or higher or a glass transition point of 100°C or higher.
- 2-4. (Canceled)

- 5. (Withdrawn) The material according to claim 1, wherein the at least one type of ethylenic fluoromonomer unit (b) containing no sulfonic acid functional groups comprises tetrafluoroethylene.
- 6. (Withdrawn) The material according to claim 1, wherein the fluoropolymer chain segment B is a polymer chain comprising 85 to 100 mol% of tetrafluoroethylene and 15 to 0 mol% of a monomer represented by Formula (3)

$$CF_2=CF-Rf^a$$
 (3)

wherein Rf<sup>a</sup> is CF<sub>3</sub> or ORf<sup>b</sup> and Rf<sup>b</sup> is C<sub>1</sub> to C<sub>5</sub> perfluoroalkyl.

- 7. (Withdrawn) The material according to claim 1, wherein the multi-segmented fluoropolymer has an equivalent weight of 400 to 1600.
- 8. (Withdrawn) The material according to Claim 1, comprising a multi-segmented fluoropolymer having at least two types of fluoropolymer chain segments C and D containing sulfonic acid functional groups, the fluoropolymer chain segment C having a smaller equivalent weight than the fluoropolymer chain segment D.
- 9. (Withdrawn) The material according to Claim 8, wherein the fluoropolymer chain segment D has a crystalline melting point of 100°C or higher or a grass transition point of 100°C or higher.

- 10. (Withdrawn) The material according to Claim 8, wherein the fluoropolymer chain segments C and D containing sulfonic acid functional groups are each a copolymer comprising:
- (c) an ethylenic fluoromonomer unit containing sulfonic acid function groups; and
- (d) at least one type of ethylenic fluoromonomer unit copolymerizable with the unit (c) and containing no sulfonic acid functional groups.
- 11. (Withdrawn) The material according to claim 10, wherein the ethylenic fluoromonomer unit (c) containing sulfonic acid functional groups is represented by Formula (1)

$$CX_2 = CX^1 - (O)_n - Rf - SO_2Y$$
 (1)

wherein X and  $X^1$  may be the same or different and are each hydrogen or fluorine; Y is F, CI or OY<sup>1</sup> wherein Y<sup>1</sup> is hydrogen, alkali metal or C<sub>1</sub> to C<sub>5</sub> alkyl; Rf is C<sub>1</sub> to C<sub>40</sub> divalent fluoroalkylene or C<sub>1</sub> to C<sub>40</sub> divalent fluoroalkylene having ether bond(s); and n is 0 or 1.

12. (Withdrawn) The material according to Claim 8, comprising the multi-segmented fluoropolymer in which the fluoropolymer chain segment D has an equivalent weight of 1000 or more.

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13. (Withdrawn) The material according to Claim 8, wherein the multi-segmented fluoropolymer has an equivalent weight of 400 to 1600.

- 14. (Withdrawn) A solid polyelectrolyte membrane comprising the multi-segmented fluoropolymer according to claim 1.
- 15. (Withdrawn) The solid polyelectrolyte membrane according to Claim 14, wherein the multi-segmented fluoropolymer contains protonated sulfonic acid (SO<sub>3</sub>H) groups as the sulfonic acid functional groups, and has a modulus of elasticity of at least 1X10<sup>8</sup> dyn/cm<sup>2</sup> at 110°C or higher.
- 16. (Withdrawn) The solid polyelectrolyte membrane according to Claim 15, wherein the equivalent weight of the whole multi-segmented fluoropolymer is 1600 or less.
- 17. (Withdrawn) A multi-segmented fluoropolymer having a fluoropolymer chain segment A<sup>1</sup> containing sulfonic acid functional groups and a fluoropolymer chain segment B<sup>1</sup> containing no sulfonic acid functional groups, wherein:

the fluoropolymer chain segment A<sup>1</sup> containing sulfonic acid functional groups is a copolymer having a molecular weight of 5000 to 750000 and comprising:

(e) 1 to 50 mol% of at least one type of structural unit represented by Formula (1)

$$CX_2 = CX^1 - (O)_n - Rf - SO_2Y$$
 (1)

wherein X and  $X^1$  may be the same or different and are each hydrogen or fluorine; Y is F, CI and OY<sup>1</sup> wherein Y<sup>1</sup> is hydrogen, alkali metal or C<sub>1</sub> to C<sub>5</sub> alkyl; Rf is C<sub>1</sub> to C<sub>40</sub> divalent fluoroalkylene or C<sub>1</sub> to C<sub>40</sub> divalent fluoroalkylene having ether bond(s); and n is 0 or 1, and

(f) 99 to 50 mol% of at least one type of ethylenic monomer structural unit containing no sulfonic acid functional groups; and

the fluoropolymer chain segment B<sup>1</sup> is a fluoropolymer chain containing at least one type of ethylenic fluoromonomer unit and having a molecular weight of 3000 to 12000000.

18. (Withdrawn) The multi-segmented fluoropolymer according to claim 17, wherein the ethylenic fluoromonomer (e) in the fluoropolymer chain segment A<sup>1</sup> is represented by Formula (2)

$$CF_2=CFO-Rf-SO_2Y$$
 (2)

wherein Y is F, Cl or  $OY^1$  wherein  $Y^1$  is hydrogen, alkali metal or  $C_1$  to  $C_5$  alkyl; Rf is  $C_1$  to  $C_{40}$  divalent fluoroalkylene or  $C_1$  to  $C_{40}$  divalent fluoroalkylene or  $C_1$  to  $C_{40}$  divalent fluoroalkylene having ether bond(s).

- 19. (Withdrawn) The multi-segmented fluoropolymer according to Claim 17, wherein the ethylenic monomer (f) in the fluoropolymer chain segment A<sup>1</sup> contains at least one ethylenic fluoromonomer.
- 20. (Withdrawn) The multi-segmented fluoropolymer according to Claim 19, wherein the ethylenic monomer (f) is tetrafluoroethylene.

21. (Withdrawn) The multi-segmented fluoropolymer according to Claim 17, wherein the fluoropolymer chain segment B<sup>1</sup> is a polymer chain comprising 85 to 100 mol% of tetrafluoroethylene and 15 to 0 mol% of a monomer represented by Formula (3)

$$CF_2=CF-Rf^a$$
 (3)

wherein  $Rf^a$  is  $CF_3$  or  $ORf^b$  and  $Rf^b$  is  $C_1$  to  $C_5$  perfluoroalkyl.

22. (Withdrawn) A multi-segmented fluoropolymer having at least two types of fluoropolymer chain segments C<sup>1</sup> and D<sup>1</sup> containing sulfonic acid functional groups, wherein:

the fluoropolymer chain segment C<sup>1</sup> is a copolymer having a molecular weight of 5000 to 750000 and comprising:

(g) 13 to 50 mol% of at least one type of ethylenic fluoromonomer structural unit containing sulfonic acid functional groups and represented in Formula (1)

$$CX2=CX1-(O)n-Rf-SO2Y (1)$$

wherein X and  $X^1$  may be the same or different and are each hydrogen or fluorine; Y is F, CI or OY<sup>1</sup> wherein Y<sup>1</sup> is hydrogen, alkali metal or C<sub>1</sub> to C<sub>5</sub> alkyl; Rf is C<sub>1</sub> to C<sub>40</sub> divalent fluoroalkylene or C<sub>1</sub> to C<sub>40</sub> divalent fluoroalkylene having ether bond(s); and n is 0 or 1, and

(h) 87 to 50 mol% of at least one type of ethylenic monomer structural unit containing no sulfonic acid functional groups; and

the fluoropolymer chain segment D<sup>1</sup> is a fluoropolymer chain having a molecular weight of 3000 to 1200000 and comprising:

(i) not less than 0.1 mol% but less than 13 mol% of at least one type of ethylenic fluoromonomer unit containing sulfonic acid functional groups and represented by Formula (1)

$$CX_2 = CX^1 - (O)_n - Rf - SO_2Y$$
 (1)

wherein X, X<sup>1</sup>, Y, n and Rf are as defined above, and

- (j) more than 87 mol% but not more than 99.9 mol% of at least one type of ethylenic monomer unit containing no sulfonic acid functional groups.
- 23. (Withdrawn) The multi-segmented fluoropolymer according to claim 22, wherein the ethylenic fluoromonomer (g) in the fluoropolymer chain segment C<sup>1</sup> is represented by Formula (2)

$$CF_2 = CFO - Rf - SO_2Y$$
 (2)

wherein Y is F, Cl or  $OY^1$  wherein  $Y^1$  is hydrogen, alkali metal or  $C_1$  to  $C_5$  alkyl; Rf is  $C_1$  to  $C_{40}$  divalent fluoroalkylene or  $C_1$  to  $C_{40}$  divalent fluoroalkylene having ether bond(s).

- 24. (Withdrawn) The multi-segmented fluoropolymer according to Claim 22, wherein the ethylenic monomer (h) in the fluoropolymer chain segment C<sup>1</sup> contains at least one ethylenic fluoromonomer.
- 25. (Withdrawn) The multi-segmented fluoropolymer according to Claim 24, wherein the ethylenic monomer (h) in the fluoropolymer chain segment C<sup>1</sup> is tetrafluoroethylene.

26. (Withdrawn) The multi-segmented fluoropolymer according to claim 22, wherein the ethylenic fluoromonomer (i) in the fluoropolymer chain segment D<sup>1</sup> is represented by Formula (2)

$$CF_2 = CFO - Rf - SO_2Y$$
 (2)

wherein Y is F, CI or  $OY^1$  wherein  $Y^1$  is hydrogen, alkali metal or  $C_1$  to  $C_5$  alkyl; Rf is  $C_1$  to  $C_{40}$  divalent fluoroalkylene or  $C_1$  to  $C_{40}$  divalent fluoroalkylene having ether bond(s).

- 27. (Withdrawn) The multi-segmented fluoropolymer according to Claim 22, wherein the ethylenic monomer (j) in the fluoropolymer chain segment D<sup>1</sup> contains at least one ethylenic fluoromonomer.
- 28. (Withdrawn) The multi-segmented fluoropolymer according to Claim 27, wherein the ethylenic monomer (j) in the fluoropolymer chain segment D<sup>1</sup> is tetrafluoroethylene.
- 29. (Withdrawn) A solid polyelectrolyte membrane comprising the multi-segmented fluoropolymer according to claim 8.
- 30. (Currently Amended) A material for a solid polyelectrolyte, comprising a multisegmented fluoropolymer that comprises a block copolymer and/or a graft copolymer,

wherein the copolymer contains one or more blocks essentially consisting of segment A and one or more blocks essentially consisting of segment B, the segment A combines with the segment B,

wherein the segment A has a molecular weight of 5,000 to 1,000,000, and the Segment A is a copolymer chain comprising:

(a) an ethylenic fluoromonomer containing sulfonic acid functional groups each represented by Formula (1)

$$CX_2 = CX^1 - (O)_n - Rf - SO_2Y$$
 (1)

wherein X and  $X^1$  may be the same or different and are each hydrogen or fluorine; Y is  $\text{FI}\underline{F}$ , CI, or OY $^1$  wherein Y $^1$  is hydrogen, alkali metal or C $_1$  to C $_5$  alkyl; Rf is C $_1$  to C $_4$ 0 divalent fluoroalkylene or C $_1$  to C $_4$ 0 divalent fluoroalkylene having one or more ether bonds; and n is 0 or 1; and

(b) at least one type of ethylenic fluoromonomer copolymerizable with the ethylenic fluoromonomer (a) and containing no sulfonic acid functional groups,

the segment B is a fluoropolymer containing no sulfonic acid functional groups, has a molecular weight of 3,000 to 1,200,000, and has a crystalline melting point of 100°C or higher or a glass transition point of 100°C or higher,

wherein the ratio of segment A: segment B in the segmented fluoropolymer is 30:70 to 90:10 wt. %.

31-34. (Canceled)

35. (Previously Presented) The material according to claim 30, wherein the fluoropolymer segment B is a polymer comprising 85 to 100 mol% of tetrafluoroethylene and 15 to 0 mol% of a monomer represented by Formula (3)

$$CF_2=CF-Rf^a$$
 (3)

wherein  $Rf^a$  is  $CF_3$  or  $ORf^b$  wherein  $Rf^b$  is  $C_1$  to  $C_5$  perfluoroalkyl.

- 36. (Previously Presented) The material according to claim 30, wherein the multisegmented fluoropolymer has an equivalent weight of 400 to 1600.
- 37. (Withdrawn) The material according to claim 8, which comprises a multi-segmented fluoropolymer having a block copolymer of at least two types of fluoropolymer chain segments C and D containing sulfonic acid functional groups, the fluoropolymer chain segment C having a smaller equivalent weight than the fluoropolymer chain segment D.
- 38. (Previously Presented) A solid polyelectrolyte membrane comprising the multisegmented fluoropolymer according to claim 30.
- 39. (Previously Presented) The solid polyelectrolyte membrane according to claim 38, wherein the multi-segmented fluoropolymer contains protonated sulfonic acid (SO<sub>3</sub>H) groups as the sulfonic acid functional groups, and has a modulus of elasticity of at least 1X10<sup>8</sup> dyn/cm<sup>2</sup> at 110°C or higher.

- 40. (Previously Presented) The solid polyelectrolyte membrane according to claim 39, wherein the equivalent weight of the whole multi-segmented fluoropolymer is 1600 or less.
- 41. (Withdrawn) The multi-segmented fluoropolymer according to claim 17, which has a block copolymer of a fluoropolymer chain segment A<sup>1</sup> containing sulfonic acid functional groups and a fluoropolymer chain segment B<sup>1</sup> containing no sulfonic acid functional groups, wherein:

the fluoropolymer chain segment A<sup>1</sup> containing sulfonic acid functional groups is a copolymer having a molecular weight of 5000 to 750000 and comprising:

(e) 1 to 50 mol% of at least one type of structural unit represented by Formula (1)

$$CX_2 = CX^1 - (O)_0 - Rf - SO_2Y$$
 (1)

wherein X and  $X^1$  may be the same or different and are each hydrogen or fluorine; Y is F, CI or OY<sup>1</sup> wherein Y<sup>1</sup> is hydrogen, alkali metal or C<sub>1</sub> to C<sub>5</sub> alkyl; Rf is C<sub>1</sub> to C<sub>40</sub> divalent fluoroalkylene or C<sub>1</sub> to C<sub>40</sub> divalent fluoroalkylene having ether bond(s); and n is 0 or 1, and,

(f) 99 to 50 mol% of at least one type of ethylenic monomer structural unit containing no sulfonic acid functional groups; and

the fluoropolymer chain segment B<sup>1</sup> is a fluoropolymer chain containing at least one type of ethylenic fluoromonomer unit and having a molecular weight of 3000 to 1200000.

42. (Withdrawn) The multi-segmented fluoropolymer according to claim 22, which has a block copolymer of at least two types of fluoropolymer chain segments C<sup>1</sup> and D<sup>1</sup> containing sulfonic acid functional groups, wherein:

the fluoropolymer chain segment C<sup>1</sup> is a copolymer having a molecular weight of 5000 to 750000 and comprising:

(g) 13 to 50 mol% of at least one type of ethylenic fluoromonomer structural unit containing sulfonic acid functional groups and represented by Formula (1)

$$CX_2 = CX^1 - (O)_n - Rf - SO_2Y$$
 (1)

wherein X and  $X^1$  may be the same or different and are each hydrogen or fluorine; Y is F, CI or  $OY^1$  wherein  $Y^1$  is hydrogen, alkali metal or  $C_1$  to  $C_{40}$  divalent fluoroalkylene having ether bond(s); and n is 0 or 1, and

(h) 87 to 50 mol% of at least one type of ethylenic monomer structural unit containing no sulfonic acid functional groups; and

the fluoropolymer chain segment D<sup>1</sup> is a fluoropolymer chain having a molecular weight of 3000 to 1200000 and comprising:

(i) not less than 0.1 mol% but less than 13 mol% of at least one type of ethylenic fluoromonomer unit containing sulfonic acid functional groups and represented by Formula (a)

$$CX_2 = CX^1 - (O)_n - Rf - SO_2Y$$
 (1)

wherein X, X<sup>1</sup>, Y, n and Rf are as defined above, and

(j) more than 87 mol% but not more than 99.9 mol% of at least one type of ethylenic monomer unit containing no sulfonic acid functional groups.

- 43. (Withdrawn) The solid polyelectrolyte membrane according to claim 29, wherein the multi-segments fluoropolymer contains protonated sulfonic acid (SO<sub>3</sub>H) groups as the sulfonic acid functional groups, and has a modulus of elasticity of at least 1X10<sup>8</sup> dyn/cm<sup>2</sup> at 110°C or higher.
- 44. (Withdrawn) The solid polyelectrolyte membrane according to claim 43, wherein the equivalent weight of the whole multi-segmented fluoropolymer is 1600 or less.

45-50. (Canceled).

- 51. (Previously Presented) The material according to claim 30, wherein the at least one type of ethylenic fluoromonomer (b) containing no sulfonic acid functional groups is tetrafluoroethylene.
- 52. (Canceled).